

TRACKER 1500 TT

Frequency Flexibility. Platform Scalability. A Heritage of Reliability.
Any Orbit. Any Network. Anywhere.

**COBHAM
SATCOM**
Connecting the future

Product Sheet



The Cobham Satcom Tactical Tracker 1.5m X-Y antenna is designed to enable a new range of services and applications, utilizing GEO, MEO, and LEO satellites combine high performance and reliability with ease of installation and use.

Designed for flexibility

With Cobham's unsurpassed pointing accuracy, the Tactical TRACKER is designed to meet RF performance specifications for LEO/MEO/GEO networks operations providing long-term flexibility. Users can quickly switch between satellite orbits and operators.

The X-Y Axis pedestal provides excellent highspeed performance for multiple applications, including rapid retrace to enable **“break before make”** single antenna topology on MEO.

Compact and high performance

The Tactical TRACKER 1500 is a compact, modular and cost-effective user terminal that provides secure, mission-critical data and control links for a growing range of defense and government applications.

Toolless assembly time is less than 30 minutes, from initial assembly to satellite acquisition and network readiness.

The parabolic reflector is manufactured with a lightweight, high performance segmented carbon fiber composite mounted on the X-Y servo system that provides a full range of motion control, designed for high-duty cycle LEO/MEO satellite tracking, and no keyhole effect with the Cobham Satcom high-performance servo control system.

Cobham Satcom antennas are highly customizable and meet diverse requirements regardless of orbit, RF band, or network.

Each antenna, including the Tactical TRACKER, is manufactured with our proprietary control system, providing expertly engineered innovative tracking algorithms for the most accurate tracking and pointing with the highest data throughput available today.

Unique features

- Customizable
- Using OpenAMIP v1.17 and OpenBMIP
- User-friendly assembly, operation, disassembly and pack-up
- Auto trimming & leveling with adjustable legs
- Less than 30-minute total set-up & satellite acquisition
- Meets MIL-STD-1472G pack up two-man lift/carry

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Product Sheet



MECHANICAL		PACKAGING (4 Cases)	
El/CL Drive	Motorized Y over X Positioner	Reflector Case	26.5 x 26.5 x 15.6 (~70 lbs.)
Polarization	Manual Feed Rotation (Linear)	Positioner Case	37.5 x 27.5 x 14.5 (~90 lbs.)
Reflector	Segmented 10-Piece Carbon Fiber	Pedestal/Controller	44.9 x 25.3 x 16.5 (~115 lbs.)
Retrace Speed	30 Degrees per Second	RF Case	26.5 x 26.5 x 15.6 (~60 lbs.)
Power Supply	110/220 V 50/60 Hz		

ENVIRONMENTAL	
Wind-Operational	~30 MPH gusting to ~45 MPH
Wind-Survival	60 MPH
Temperature Operational	- 30° to 60° Celcius
Temperature Survival	- 40° to 70° Celcius

RF/ELECTRICAL	Ka BAND COMMERCIAL		Ka BAND MILITARY		Ku BAND		X BAND	
RF Parameters	Receive	Transmit	Receive	Transmit	Receive	Transmit	Receive	Transmit
Frequency	17.7-20.2 GHz	27.5-30.0 GHz	20.2-21.2 GHz	30.0-31.0 GHz	10.7-12.75 GHz	13.75 - 14.5 GHz	7.25-7.75 GHz	7.9-8.4 GHz
Polarization	RHCP + LHCP	RHCP + LHCP	RHCP + LHCP	RHCP + LHCP	Linear Xpol	Horiz or Vert	RHCP + LHCP	RHCP + LHCP
Gain @ Mid Band (dBi)	47.8 dBi	51.2 dBi	48.1 dBi	51.4 dBi	43.5 dBi	45.2 dBi	39.0 dBi	39.6 dBi
VSWR	1.3: 1 Typical	1.3: 1 Typical	1.3: 1 Typical	1.3: 1 Typical	1.3: 1 Typical	1.3: 1 Typical	1.3: 1 Typical	1.3: 1 Typical
Radiation Pattern Compliance	FCC 25.209, Mil -STD-188-164A	FCC 25.209, Mil -STD-188-164A	Mil -STD-188-164A	Mil -STD-188-164A	FCC 25.209, ITU-R 5.580-6	FCC 25.209, ITU-R 5.580-6	Mil-STD-188-164A	Mil-STD-188-164A
Power Handling Capability	NA	250 Watts	NA	250 Watts	NA	400 Watts	NA	500 Watts
G/T @ Mid -Band (40 Degrees)	24.8 dB/K	NA	25.0 dB/K	NA	22.9 dB/K	NA	17.5 dB/K	NA
Axial Ratio	1.5	1.0	1.5	1.0			1.2	2.0
Cross Pol Isolation	>22 dB Typical	>25 dB Typical	>22 dB Typical	>25 dB Typical	>30 dB	>30 dB	>23 dB Typical	>20 dB Typical
Feed Port Isolation	>35 dB	>80 dB	>35 dB	>80 dB	>35 dB	>80 dB	>110 dB	>110 dB

CONTROL INTERFACE	OPTIONS
Controller is embedded into pedestal	Various RF kits available: Ka, Ku, X Bands available upon request
OpenAMIP 1.17 compatible	Various BUC options with mountin kits available
Enhanced GUI for ease of setup and operation	Anchoring kit options available
Advanced software to actively track the best signal available	Spare parts kit available
Supports GEO, MEO and LEO tracking	Other packaging configurations available upon request
Supports HTTPS for secure connection	
Support for TLE as well as ECEF tracking formats	
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